# From the INTERNATIONAL SEARCHING AUTHORITY

To: RICHARD D. GETZ MCCORMICK, PAULDING & HUBER LLP CITYPLACE II, 185 ASYLUM STREET HARTFORD, CT 06/03	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION				
	(PCT Rule 44.1)  Date of mailing				
Applicant's or agent's file reference	(day/month/year) 13 JAN 2005				
0048P-1393WO International application No.	FOR FURTHER ACTION See paragraphs 1 and 4 below				
PCT/US04/09565	International filing date (day/month/year) 29 March 2004 (29.03.2004)				
Applicant GERBER SCIENTIFIC PRODUCTS, INC.					
1. The applicant is hereby notified that the international sear Authority have been established and are transmitted here.	rch report and the written opinion of the International Searching with.				
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla	aims of the international application (see Rule 46):				
	normally two months from the date of transmittal of the international CASE 01158-4001 PC				
•	). 34 chemin des Colombettes LIT Mand 12 3 and Carl III				
For more detailed instructions, see the notes on the a					
2. The applicant is hereby notified that no international search	ch report will be established and that the declaration pader me International Searching Authority are transmitted herewith				
	ional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been request to forward the texts of both the protest and the no decision has been made yet on the protest; the approximation of the protest is the approximation.	en transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices.				
4. Reminders					
bulcau. If the applicant wishes to avoid or postnone nublication	the international application will be published by the International a, a notice of withdrawal of the international application, or of the n Rules 90bis.1 and 90bis.3, respectively, before the completion of				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.					
In respect of other designated Offices, the time limit of 30 months	s (or later) will apply even if no demand is filed within 19 months.				
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet site.	applicable time limits, Office by Office, see the PCT Applicant's				
Name and mailing address of the ISA/ US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents  P.O. Box 1450  Alexandria, Virginia 22313-1450  Facsimile No. (703) 305-3230	Telephone No. (703) 308-1749				
orm PCT/ISA/220 (January 2004)	/C				

(See notes on accompanying sheet)



# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 0048P-1393WO	FOR FURTHER		Form PCT/ISA/220		
International analisation Ma	ACTION		ere applicable, item 5 below.		
International application No. PCT/US04/09565	International filing date (day/s 29 March 2004 (29.03.2004)	month/year)	(Earliest) Priority Date (day/month/year) 28 March 2003 (28.03.2003)		
Applicant GERBER SCIENTIFIC PRODUCTS, INC	•				
The second secon	··				
This international search report has been according to Article 18. A copy is being	prepared by this International	l Searching Au nal Bureau.	thority and is transmitted to the applicant		
This international search report consists of the latest the latest tensor of the latest tenso	of a total of 3_ sheets.  by a copy of each prior art de	ocument cited	in this report		
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Basis of the Report     With regard to the language, the language in which it was filed, un	international search was carried nless otherwise indicated under	d out on the bas this item.	sis of the international application in the		
The international furnished to this Author	search was carried out on the brity (Rule 23.1(b)).	asis of a transla	ation of the international application		
b. With regard to any nucleotic	de and/or amino acid sequence	e disclosed in th	ne international application, see Box No. I.		
1 1 1	unsearchable (See Box No. II)		-		
3. Unity of invention is lacking 4. With regard to the title,	g (See Box No. III)				
the text is approved as submi	itted by the applicant.				
	by this Authority to read as follows:	lows:			
			(Comm to Abstract) 8-4001 PC ATTY KJM herang 13, 2005.		
	C.A	45E 475	8-4001 PC ATTY KJM		
	DL	JE <b></b>	reary 13, 2005.		
	. 1	mo. call-up	,		
5. With regard to the abstract,			BY <b>// 2n</b> .		
the text is approved as submi	tted by the applicant.				
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant					
may, within one month from the date of mailing of this international search report, submit comments to this Authority.					
6. With regard to the drawings,					
a. the figure of the drawings to be p		gure No. <u>I</u>			
as suggested by the a		follod to access			
	uthority, because the applicant authority, because this figure bet		-		
b. none of the figures is to be pu		ter characterize	s die myention.		
Form PCT/ISA/210 (first sheet) (Innuary 200					



international application No.

PCT/US04/09565

## Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

A donor web (26) for use in a thermal transfer priner (10) comprises a foil having a transfer side (46) and a non-transfer side (48). A layer of thermal transfer material (50) is disposed on the transfer side (46) of the foil material. Indicia (54) is ink-jetted to the foil. The indicia (54) includes information pertaining to at least one of the length of used foil and the length of unused foil so that an operator can determine whether there is enough foil left for a printing operation. Preferably, the indicia (54) is disposed on the non-transferable side (48) and at a longitudinal edge portion (52) of the foil in order to not affect or otherwise damage the printing operation of the foil. Also, the indicia (54) is preferably white or black in order to be clearly visible against various colors of the thermal transfer material (50). The indicia (55) can also be disposed on a receiver web (12).

Form PCT/ISA/210 (continuation of first sheet(3)) (January 2004)



International application No.

PCT/US04/09565

A CT A	COLLICATION OF CURIECON A COMPANY		<del></del>			
	SSIFICATION OF SUBJECT MATTER					
IPC(7)	: B41J 017/36, 035/36, 011/42,011/46					
US CL	: 347/215,217,218,221,214; 400/207,208,208.1	,249,703,5	80,583,583.3			
	International Patent Classification (IPC) or to both r	ational clas	sification and IPC			
B. FIEL	DS SEARCHED					
Minimum do	cumentation searched (classification system followed	by classific	cation symbols)			
U.S. : 3	47/215,217,218,221,214; 400/207,208,208.1,249,70	3,580,583,	583.3; 242/525			
			•			
Documentati	on searched other than minimum documentation to th	e extent tha	t such documents are included in	n the fields searched		
	•					
	The state of the s					
Electronic da	ta base consulted during the international search (nan	ne of data b	ase and, where practicable, sear	ch terms used)		
			•	,		
C DOG	In anyma actions and a second					
	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where	appropriate,	of the relevant passages	Relevant to claim No.		
X	JP 2-20379 (Fujitsu Ltd) (23 January 1990 (23.01.1	990), abstr	act and Figs. 1 and 2.	1-7, 24-33		
		•		1 7, 24-33		
X	JP 63-278889 (Nec Corp) 16 November 1988 (16.1	1.1988), ab	stract and Fig. 1	1, 24, 25, 32, 33		
	ζ γ, ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε		115. 1	1, 24, 23, 32, 33		
Α	US 2003/0025027 A1 (Ebisawa et al.) 06 February	2003 (06 0	1 2003) Fig 4	0 10		
		2003 (00.0	1.2005), 1 ig. 4	8, 18		
			ļ.			
			i			
Further	documents are listed in the continuation of Box C.		See patent family annex.			
	pecial categories of cited documents:					
Sį	ectal categories of cited documents:	"T"	later document published after the inter	national filing date or priority		
"A" document	defining the general state of the art which is not considered to be		date and not in conflict with the applica principle or theory underlying the inver	ntion but cited to understand the		
of particul	ar relevance	4379				
"E" earlier app	olication or patent published on or after the international filing date	"X"	document of particular relevance; the cl	laimed invention cannot be		
			considered novel or cannot be considered when the document is taken alone	ed to involve an inventive step		
"L" document	which may throw doubts on priority claim(s) or which is cited to					
specified)	he publication date of another citation or other special reason (as	"Y"	document of particular relevance; the cl	aimed invention cannot be		
			considered to involve an inventive step combined with one or more other such	when the document is		
"O" document	referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the	art		
"P" document	published prior to the international filing date but later than the	"&"	dogument member of the service of			
priority da	te claimed	oc.	document member of the same patent fa	mily		
Date of the ac	tual completion of the international search	Date of -	vailing of the interesting			
	van dempletion of the intelligitional scalen	Date of II	nailing of the international search	1 report		
	September 2004 (21.09.2004) 13 JAN. 2005					
	ame and mailing address of the ISA/US  Aptholized officer					
	Stop PCT, Attn: ISA/US	KALIN	10/0,0			
Com	missioner for Patents	Huan H.	Tran \	İ		
P.O.	Box 1450	Telephon	No. (703) 208 1740			
	andria, Virginia 22313-1450 (703) 305-3230	reseption	e No. (703) 308-1749	ļ		
acomme 140.	(703) 303-3230					

Form PCT/ISA/210 (second sheet) (January 2004)

From the

### INTERNATIONAL SEARCHING AUTHORITY

RICHARD D. GETZ MCCORMICK, PAULDING & HUBER LLP CITYPLACE II, 185 ASYLUM STREET

# **PCT**

# WRITTEN OPINION OF THE

HARTFORD, CT CT		INTERNATIONAL SEARCHING AUTHORITY		
		(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	13 JAN 2005	
Applicant's or agent's file reference		FOR FURTHER	ACTION	
0048P-1393WO			See paragraph 2 below	
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/US04/09565	29 March 2004 (29.03.2	2004)	28 March 2003 (28.03.2003)	
International Patent Classification (IPC)			(2000)	
IPC(7): B41J 017/36, 035/36, 011/42,01 242/525	1/46 and US Cl.: 347/21	5,217,218,221,214;	400/207,208,208.1,249,703,580,583,583.3;	
Applicant				
GERBER SCIENTIFIC PRODUCTS, IN	NC.			
1. This opinion contains indications rel	ating to the following item	ns:	·	
Box No. I Basis of the	opinion			
Box No. II Priority			*	
Box No. III Non-establis	shment of opinion with re	gard to novelty, inve	entive step and industrial applicability	
Box No. IV Lack of uni	ty of invention		·	
	soned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial licability; citations and explanations supporting such statement			
Box No. VI Certain doc	uments cited		CASE 04758-41018 ATTY	
Box No. VII Certain defe	ects in the international ap	plication	DUE april 13 2005 (Writ 0	
Box No. VIII Certain obse	ervations on the internation	nal application	mo. call-up	
2. FURTHER ACTION			and m	
International Preliminary Examining	g Authority ("IPEA") exhe IPEA and the chosen l	scept that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1bis(b) dered.	
If this opinion is, as provided above IPEA a written reply together, who mailing of Form PCT/ISA/220 or be For further options, see Form PCT/I	ere appropriate, with ame fore the expiration of 22	endments, before th	PEA, the applicant is invited to submit to the me expiration of 3 months from the date of pority date, whichever expires later.	
3. For further details, see notes to Form	n PCT/ISA/220.	) ^		
Name and mailing address of the ISA/ US	S	Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Huan H. Tran	luf,	
P.O. Box 1450			$\mathcal{M}$	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. (7	703) 308-1749	

Form PCT/ISA/237 (cover sheet) (January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Internatio	ib. p	plication	No.

PCT/US04/09565

Box N	o. I Basis of this opinion	
1. With it was	regard to the language, this opinion has been established on the basis of the international application is filed, unless otherwise indicated under this item.	the language in which
	This opinion has been established on the basis of a translation from the original language into the followhich is the language of a translation furnished for the purposes of international search (under Rules)	owing language, 12.3 and 23.1(b)).
2. With claim	regard to any nucleotide and/or amino acid sequence disclosed in the international application and invention, this opinion has been established on the basis of:	and necessary to the
a.	type of material	
	a sequence listing	
	table(s) related to the sequence listing	
b.	format of material	
	in written format	
	in computer readable form	,
c.	time of filing/furnishing	
	contained in international application as filed.	•
	filed together with the international application in computer readable form.	•
	furnished subsequently to this Authority for the purposes of search.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating filed or furnished, the required statements that the information in the subsequent or additional copies the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	ing thereto has been is identical to that in
4. Additi	ional comments:	
	•	V van ++
		-



pplication No. Internationa. PCT/US04/09565

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Novelty (N) Claims 7-23 and 31 YES Claims 1-6 and 24-30, 32-33 NO Inventive step (IS) Claims 8-23 YES Claims 1-7 and 24-33 NO Industrial applicability (IA) Claims 1-33 YES Claims NONE NO

### 2. Citations and explanations:

Claims 8-23 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed method and system for applying indicia onto a donor web as the web is advanced onto supply rolls.

Claims 7 and 31 lack an inventive step under PCT Article 33(3) as being obvious over JP 2-20379. JP 2-20379 shows the marks 14 being spaced from one another along a longitudinal edge of the ribbon 8 but does not teach the particular spacing as recited in claim 7. However, it is submitted that such particular spacing would have been obvious to one of ordinary skill in the art depending on the application and desired accuracy of measurement.



International application No. PCT/US04/09565

Sι	ıpp	olen	nen	tal	Box	

In case the space in any of the preceding boxes is not sufficient.

#### V. 2. Citations and Explanations:

Claims 1-33 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Claims 1, 24, 25, 32, 33 lack novelty under PCT Article 33(2) as being anticipated by JP 63-278889.

As to claim 1, JP 63-278889 discloses a donor web for use in a thermal printer, comprising:

a foil having a transfer side and a non-transfer side;

a layer of thermal transfer material disposed on the transfer side of the foil material; and indicia, the indicia including information of at least one of a length of used foil and a length of unused foil.

It should be noted that the process used to print the indicia is not given patentable weight in the product-by-process for the reason that the claim is directed to a product.

As to claim 24, JP 63-278889 discloses a donor web cassette for a thermal transfer printer, the cassette comprising:

a housing including a supply roll and a take-up roll;

a donor web accommodated by the housing and coupled to the supply roll and the take-up roll,

the housing defining an opening between the supply roll and the take-up roll to expose for viewing a portion of the donor web within the opening; and

indicia, the indicia including information of at least one of a length of used donor web and a length of unused donor web.

It should be noted that the process used to print the indicia is not given patentable weight in the product-by-process for the reason that the claim is directed to a product.

As to claim 25, JP 63-278889 discloses that the donor web includes:

a foil having a transfer side a non-transfer side;

a layer of thermal transfer material disposed on the transfer side of the foil material, and wherein the indicia is disposed on the foil.

As to claim 32, JP 63-278889 discloses a web for use in a thermal printer, comprising:

a sheet material; and

indicia, the indicia including information of at least one of a length of used foil and a length of unused foil.

It should be noted that the process used to print the indicia is not given patentable weight in the product-by-process for the



International application No. PCT/US04/09565

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

reason that the claim is directed to a product.

As to claim 33, JP 63-278889 shows that the sheet material is one of a donor web and a receiver web.

Claims 1, 6, 24, 25, 32, 33 lack novelty under PCT Article 33(2) as being anticipated by JP 2-20379.

As to claim 1, JP 2-20379 discloses a donor web for use in a thermal printer, comprising: a foil (ribbon 8a) having a transfer side and a non-transfer side; a layer of thermal transfer material disposed on the transfer side of the foil material; and indicia (marks 14), the indicia including information of at least one of a length of used foil and a length of unused foil.

It should be noted that the process used to print the indicia is not given patentable weight in the product-by-process for the reason that the claim is directed to a product.

As to claim 2, JP 2-20379 teaches the limitation that the indicia (marks 14) is disposed on the non-transfer side of the foil. See Figs. 1 and 2 where reader 11 is shown reading the marks 14 on the back side (non-transfer side) of the ribbon 8.

AS to claim 3, JP 2-20379 teaches the limitation that the indicia (marks 14) is disposed on a longitudinal edge portion of the foil (ribbon 8). See Fig. 1.

As to claims 4 and 5, the marks 14 are black in contrast with a color of the thermal transfer material.

As to claim 6, JP 2-20379 teaches the limitation that the indicia (marks 14) are spaced from one another along a length of the foil (ribbon 8a).

As to claim 24, JP 2-20379 discloses a donor web cassette for a thermal transfer printer, the cassette comprising:

a housing including a supply roll and a take-up roll (see Fig. 2);

a donor web (8) accommodated by the housing and coupled to the supply roll and the take-up roll, the housing defining an opening between the supply roll and the take-up roll to expose for viewing a portion of the donor web within the opening; and

indicia (Fig. 1, marks 14), the indicia including information of at least one of a length of used donor web and a length of unused donor web.

It should be noted that the process used to print the indicia is not given patentable weight in the product-by-process for the reason that the claim is directed to a product.

As to claim 25, JP 2-20379 discloses that the donor web includes:

a foil having a transfer side a non-transfer side (ribbon 8);

a layer of thermal transfer material disposed on the transfer side of the foil material, and wherein the indicia is disposed on the foil.

As to claim 26, JP 2-20379 teaches the limitation that the indicia (marks 14) is disposed on the non-transfer side of the foil (ribbon 8). See Figs 1 and 2 which shows reader 11 reading the marks 14 disposed on the back side (non-transfer side) of ribbon 8.

As to claim 27, JP 2-20379 shows that the marks 14 are disposed on a longitudinal edge of the foil See Fig. 1.

As to claim 28 and 29, JP 2-20379 teaches that the marks 14 are black.

As to claim 30, JP 2-20379 teaches that the marks 14 are spaced from one another along a length of the foil. See Fig. 1.

As to claim 32, JP 2-20379 discloses a web for use in a thermal printer, comprising: a sheet material (ribbon 8); and

indicia (marks 14), the indicia including information of at least one of a length of used foil and a length of unused foil.



International application No. PCT/US04/09565

G AUTHORITY	7			
is not sufficient.			· · · · · · · · · · · · · · · · · · ·	
to print the indicia	is not given	patentable weigh	it in the product-	by-process for the
the sheet material	is one of a do	onor web and a re	eceiver web.	
				٠. تي ا
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	is not sufficient.  to print the indicia  the sheet material	is not sufficient.  to print the indicia is not given  the sheet material is one of a do	is not sufficient.  to print the indicia is not given patentable weigh	is not sufficient.  to print the indicia is not given patentable weight in the product- the sheet material is one of a donor web and a receiver web.

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
- "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

  4. [Where various kinds of amendments are made]:
  "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaces, by amended

claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.

#### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

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